(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 7 October 2004 (07.10.2004)

PCT

(10) International Publication Number WO 2004/084930 A1

- (51) International Patent Classification⁷: A61K 38/18, 38/17, A61P 3/00, A01K 67/027, C12N 5/06, G01N 33/68
- (21) International Application Number:

PCT/EP2004/003244

- (22) International Filing Date: 26 March 2004 (26.03.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 03006948.8

26 March 2003 (26.03.2003) EP

- (71) Applicant (for all designated States except US): DEVELOGEN AKTIENGESELLSCHAFT FÜR ENTWICK-LUNGSBIOLOGISCHE FORSCHUNG [DE/DE]; Rudolf-Wissell-Strasse 28, 37079 Göttingen (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ONICHTCHOUK, Daria [RU/DE]; Auf der Lieth 12, 37077 Göttingen (DE). EULENBERG, Karsten [DE/DE]; Vom-Stein-Strasse 29, 37120 Bovenden (DE). NGUYEN, Tri [US/DE]; Helmoltstrasse 15, 37081 Göttingen (DE). BURK, Ulrike [DE/DE]; Ebersdorfer Strasse 20, 37081 Göttingen (DE).
- (74) Agent: WEICKMANN & WEICKMANN; Postfach 860 820, 81635 München (DE).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF SAPOSIN-RELATED PROTEINS FOR PREVENTING AND TREATING OBESITY, DIABETES AND/OR METABOLIC SYNDROME

(57) Abstract: The present invention discloses Saposin-related homologous proteins regulating the energy homeostasis and the metabolism of triglycerides, and polynucleotides, which identify and encode the proteins disclosed in this invention. The invention also relates to the use of these sequences in the diagnosis, study, prevention, and treatment of metabolic diseases and disorders.